STL Edison
777 New Durham Road
Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679
www.stl-inc.com

04/19/2007

ECC
63 Herb Hill Road
Glen Cove, NY 11542

Attention: Mr. Theodore Johnson

Laboratory Results
Job No. E707 - Li Tungsten

Dear Mr. Johnson:

Enclosed are the results you requested for the following sample(s) received at our laboratory on April 4, 2007.

Lab No.	Client ID	Analysis Required
819060	5601-FSS-PB-1012-1	As
		Pb
819061	5601-FSS-PB-1027	As
		Pb

If you have any questions, please contact me at (732) 549-3900.

Very Truly Yours,

Michael Legg
Project Manager

Analytical Results Summary

Client ID: **FSS-PB-1012-1**
Site: **Li Tungsten**

Lab Sample No: 819060
Lab Job No: E707

Date Sampled: 04/03/07
Date Received: 04/04/07

Matrix: SOLID
Level: LOW
% Moisture: 16.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.1	1.1		P
Lead	7.0	0.65		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **FSS-PB-1027**
Site: **Li Tungsten**

Lab Sample No: 819061
Lab Job No: E707

Date Sampled: 04/03/07
Date Received: 04/04/07

Matrix: SOLID
Level: LOW
% Moisture: 16.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.8	1.1		p
Lead	4.4	0.64		p

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

General Information

Chain of Custody

E707

STL Edison

5

Environmental Chemical Corporation
1746 Cole Blvd.
Bldg. 21, Suite 350
Lakewood, CO 80401
Phone: (303) 298-7607
Fax: (303) 298-7837

COC Number:

Customer Name: ECC – Li Tungsten
Address: 63 Herb Hill Road, Glen Cove, NY 11542

Contact: Theodore Johnson
Phone: (303) 472 - 8834
Fax: (516) 665- 8531

E707

ECC Project Manager: Phil O'Dwyer
Address: 63 Herb Hill Road, Glen Cove, NY 11542

Phone: (614) 402 - 2020
Customer Project Name: Li Tungsten

SAMPLE NUMBER	DATE	TIME	TYPE	CLIENT SAMPLE IDENTIFIER	TESTS	CONTAINER(S)	MATRIX
5601 -FSS-PB-1012-1	4/3/2007	16:10	FSS	Parcel B	819060 Total Lead & Arsenic 819061	1 glass jar	Soil
5601 -FSS-PB-1027	4/3/2007	16:10	FSS	Parcel B		1 glass jar	Soil
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							
N/A							

Notes:
Ship to: Severn Trent Laboratory, EDISON
777 New Durham Road, Suite 7, Edison, New Jersey, 08817
Phone: 732-549-3900
Request Turnaround Time: 7 Day

Samples cooled below 4 C

1°

Laboratory Receipt Information
Cooler/Container Intact? Yes____ No____
Samples Received At Below 4 C? Yes____ No____
Samples Containers Intact? Yes____ No____
Cooler/Container Custody Seal? Yes____ No____

CUSTODY TRANSFER RECORD

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Print: T Johnson Sign: TJ	ECC	4/3/2007	16:25	Print: Fedex			
Print: Fedex		4-4-07	10[15]	Print: A. Hall	STL	4307	10[15]
Print:				Print:			

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	E707	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	4/3/2007
Sample No.:	819060	**Date Received:**	4/4/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386
LEAD	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	E707	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	4/3/2007
Sample No.:	819061	**Date Received:**	4/4/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386
LEAD	4/6/2007	Sanagavarapu, Suguna	4/6/2007	Polidori, Michael	22386

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in “Methods for Chemical Analysis of Water and Wastewater” (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition); samples are digested according to Method 3050B “Acid Digestion of Soil, Sediments and Sludges.”

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method Furnace	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Hexavalent Chromium:

Water samples are analyzed using EPA Method 7196A, EPA Method 7199 or (upon request) USGS –1230-35. Soil samples are subjected to alkaline digestion via EPA Method 3060A prior to analysis by EPA Method 7196A or EPA Method 7199.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B
Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 18th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than or equal to the method detection limit. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND/U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

\+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

Nonconformance Summary

STL Edison Job Number: E707

Client: ECC

Date: 4/19/2007

Sample Receipt:

Sample delivery conforms with requirements.

Metals:

All data conforms with method requirements.

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Director or their designee, as verified by the following signature.

Michael Legg
Project Manager

Metals Forms and Data

Analytical Results Summary

Client ID: **FSS-PB-1012-1**
Site: **Li Tungsten**

Lab Sample No: 819060
Lab Job No: E707

Date Sampled: 04/03/07
Date Received: 04/04/07

Matrix: SOLID
Level: LOW
% Moisture: 16.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.1	1.1		P
Lead	7.0	0.65		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **FSS-PB-1027**
Site: **Li Tungsten**

Lab Sample No: 819061
Lab Job No: E707

Date Sampled: 04/03/07
Date Received: 04/04/07

Matrix: SOLID
Level: LOW
% Moisture: 16.1

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	3.8	1.1		P
Lead	4.4	0.64		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _E707 _____ Batch No.: 22386_

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U	4.7	U	0.470	U	P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	0.300	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	-2.8	B	2.7	U	2.7	U	0.270	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _E707 _____ Batch No.: 22386_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.7	U	4.7	U					P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium			3.0	U	3.0	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.7	U	2.7	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _E707 _____ Batch No.: 22386_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U					P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _E707 _____ Batch No.: 22386_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U	-5.6				P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: _E707 _____ Batch No.: 22386_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.7	U							P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	4991.00	99.8	5000.0	5012.11	100.2	5017.91	100.4	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	5000.0	4976.68	99.5	5000.0	4975.12	99.5	5024.27	100.5	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	10045.65	100.5	10000.0	9970.95	99.7	10099.34	101.0	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	5028.22	100.6	5016.70	100.3	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				5000.0	5017.48	100.3	5041.18	100.8	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	10048.55	100.5	10027.47	100.3	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: E707 Batch No.: 22386_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	4990.16	99.8			P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				5000.0	5009.63	100.2			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	9966.29	99.7			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____ _____

Lab Code: 12028_ Lab Job No.: E707 _____ Batch No.: 22386_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	4876.76	97.5	5000.0	5048.48	101.0	5077.99	101.6	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	9966.77	99.7	10000.0	10104.70	101.0	10184.46	101.8	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: E707 Batch No.: 22386_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum_									NR
Antimony_									NR
Arsenic__	5000.0	4938.62	98.8	5000.0	4910.65	98.2	5033.95	100.7	P_
Barium___									NR
Beryllium									NR
Cadmium__									NR
Calcium__									NR
Chromium_									NR
Cobalt___									NR
Copper___									NR
Iron_____									NR
Lead_____									NR
Magnesium									NR
Manganese									NR
Mercury__									NR
Nickel___									NR
Potassium									NR
Selenium_									NR
Silver___									NR
Sodium___									NR
Thallium_									NR
Vanadium_									NR
Zinc_____									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

	Initial Calibration			Continuing Calibration					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	5062.26	101.2	5100.72	102.0	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	487890	496445.5	99.3	493300	502968.4	100.6
Antimony		100		99.3	99.3		82.8	82.8
Arsenic		100		101.8	101.8		96.4	96.4
Barium		100		104.7	104.7		106.6	106.6
Beryllium		100		98.6	98.6		98.7	98.7
Cadmium		100		99.5	99.5		99.7	99.7
Calcium	500000	500000	481017	487619.5	97.5	479089	488403.3	97.7
Chromium		100		98.3	98.3		97.7	97.7
Cobalt		100		95.7	95.7		95.9	95.9
Copper		100		98.3	98.3		100.7	100.7
Iron	200000	200000	199244	202509.0	101.3	197993	202178.8	101.1
Lead		100		99.7	99.7		97.8	97.8
Magnesium	500000	500000	520803	529645.5	105.9	518930	529088.5	105.8
Manganese		100		96.8	96.8		96.3	96.3
Mercury								
Nickel		100		100.9	100.9		101.2	101.2
Potassium								
Selenium		100		94.2	94.2		92.4	92.4
Silver		100		101.5	101.5		103.3	103.3
Sodium								
Thallium		100		96.1	96.1		97.3	97.3
Vanadium		100		94.2	94.2		96.2	96.2
Zinc		100		99.5	99.5		100.7	100.7

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: _E707 Batch No.: 22386_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				492554	505336.6	101.1
Antimony		100					97.7	97.7
Arsenic		100					100.8	100.8
Barium		100					107.0	107.0
Beryllium		100					98.8	98.8
Cadmium		100					100.3	100.3
Calcium	500000	500000				484333	490223.9	98.0
Chromium		100					97.7	97.7
Cobalt		100					96.3	96.3
Copper		100					99.6	99.6
Iron	200000	200000				199534	202963.3	101.5
Lead		100					97.8	97.8
Magnesium	500000	500000				521229	531155.9	106.2
Manganese		100					96.7	96.7
Mercury								
Nickel		100					101.1	101.1
Potassium								
Selenium		100					98.6	98.6
Silver		100					103.6	103.6
Sodium								
Thallium		100					94.9	94.9
Vanadium		100					94.7	94.7
Zinc		100					100.8	100.8

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: _E707 Batch No.: 22386_

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	488787	508436.0	101.7	495596	502385.0	100.5
Antimony		100		105.0	105.0		90.4	90.4
Arsenic		100		103.4	103.4		100.4	100.4
Barium		100		108.8	108.8		106.6	106.6
Beryllium		100		100.1	100.1		100.4	100.4
Cadmium		100		101.5	101.5		98.7	98.7
Calcium	500000	500000	481043	493160.7	98.6	485217	496818.7	99.4
Chromium		100		98.9	98.9		98.2	98.2
Cobalt		100		97.1	97.1		97.0	97.0
Copper		100		105.7	105.7		101.0	101.0
Iron	200000	200000	198643	204832.9	102.4	200291	205285.3	102.6
Lead		100		99.6	99.6		98.1	98.1
Magnesium	500000	500000	519931	538461.1	107.7	526022	536983.4	107.4
Manganese		100		99.6	99.6		98.7	98.7
Mercury								
Nickel		100		106.3	106.3		102.1	102.1
Potassium								
Selenium		100		100.0	100.0		98.3	98.3
Silver		100		102.7	102.7		102.2	102.2
Sodium								
Thallium		100		96.9	96.9		96.2	96.2
Vanadium		100		96.5	96.5		95.6	95.6
Zinc		100		107.0	107.0		102.0	102.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	468608	487515.0	97.5	478348	489791.4	98.0
Antimony		100		92.0	92.0		91.4	91.4
Arsenic		100		97.3	97.3		96.2	96.2
Barium		100		104.1	104.1		107.1	107.1
Beryllium		100		98.7	98.7		98.5	98.5
Cadmium		100		97.0	97.0		98.7	98.7
Calcium	500000	500000	466126	482546.0	96.5	475327	486282.5	97.3
Chromium		100		96.5	96.5		95.8	95.8
Cobalt		100		94.6	94.6		97.1	97.1
Copper		100		99.3	99.3		98.8	98.8
Iron	200000	200000	193697	201295.9	100.6	195197	200240.5	100.1
Lead		100		98.8	98.8		97.0	97.0
Magnesium	500000	500000	509151	529131.1	105.8	513526	526679.4	105.3
Manganese		100		96.2	96.2		95.4	95.4
Mercury								
Nickel		100		98.3	98.3		98.9	98.9
Potassium								
Selenium		100		86.6	86.6		88.1	88.1
Silver		100		102.1	102.1		102.3	102.3
Sodium								
Thallium		100		93.7	93.7		98.0	98.0
Vanadium		100		94.0	94.0		95.8	95.8
Zinc		100		101.1	101.1		101.4	101.4

Spike Sample Recovery Summary

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS040607

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	194.3468		0.4700	U	200.00	97.2		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	19.8340		0.3000	U	20.00	99.2		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	49.2824		0.2700	U	50.00	98.6		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

819486MS

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	228.9116		5.2344		251.26	89.0		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	49.6518		24.6962		25.13	99.3		P
Cobalt									NR
Copper									NR
Iron									NR
Lead		272.4616		256.7513		62.81	25.0		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

LCSSD055-D

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707

Batch No.: 22386

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 100.0

% Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		83.9742		86.5398		3.0		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		91.4554		94.6572		3.4		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		86.3796		89.5702		3.6		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

819486D

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: E707 Batch No.: 22386

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 79.6 % Solids for Duplicate: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		5.2344		4.5123		14.8		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		24.6962		26.9244		8.6		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		256.7513		229.5211		11.2		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON

Lab Code: 12028_ Lab Job No.: __E707 Batch No.: 22386_

Solid LCS Source: ERA D055

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				88.8	84.0		71.8	106.0	94.6
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium				97.9	91.5		77.2	118.0	93.5
Cobalt									
Copper									
Iron									
Lead				88.9	86.4		72.7	105.0	97.2
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

819486L

Lab Name: STL_EDISON

Lab Code: 12028 Lab Job No.: _E707 Batch No.: 22386

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	20.83		23.50	U	100.0		P
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium	98.29		99.02		0.7		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	1021.87		1052.67		3.0		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22386_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 04/06/07 End Date: 04/06/07

Lab Sample No.	D/F	Time	% R	Analytes																								
				ALL	SBL	ASA	BAA	BEA	CDA	CAA	CRA	CO	CUA	FEA	PBA	MGA	MNA	HGA	NIA	K	SE	AGA	NA	TL	V	ZN	MO
1CAL-BLK	1.00	0949		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL1	1.00	0955		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1000		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1006		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
ZZZZZZ	1.00	1012																										
ICV/CCV_	1.00	1017				X					X				X													
ICB/CCB_	1.00	1023				X					X				X													
ICSA	1.00	1028				X					X				X													
ICSAB	1.00	1034				X					X				X													
ZZZZZZ	1.00	1041																										
ZZZZZZ	1.00	1047																										
ZZZZZZ	1.00	1058																										
ZZZZZZ	2.00	1105																										
ZZZZZZ	1.00	1110																										
ZZZZZZ	1.00	1116																										
ZZZZZZ	1.00	1121																										
ZZZZZZ	1.00	1127																										
CCV	1.00	1132				X					X				X													
CCB	1.00	1138				X					X				X													
ZZZZZZ	1.00	1143																										
ZZZZZZ	1.00	1149																										
ZZZZZZ	1.00	1154																										
ZZZZZZ	1.00	1200																										
ZZZZZZ	1.00	1206																										
ZZZZZZ	1.00	1211																										
ZZZZZZ	1.00	1217																										
ZZZZZZ	1.00	1222																										
ZZZZZZ	1.00	1228																										
ZZZZZZ	1.00	1233																										
CCV	1.00	1239				X					X				X													
CCB	1.00	1244				X					X				X													
ZZZZZZ	1.00	1250																										

ANALYSIS RUN LOG

Lab Name: STL_EDISON Contract:

Lab Code: 12028_ Case No.: SAS No.: SDG No.:22386_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 04/06/07 End Date: 04/06/07

Lab Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ZZZZZZ__	1.00	1255																									
ZZZZZZ__	1.00	1301																									
ZZZZZZ__	1.00	1306																									
ICSA_____	1.00	1312				X					X				X												
ICSAB___	1.00	1317				X					X				X												
CCV______	1.00	1323				X					X				X												
CCB______	1.00	1329				X					X				X												
SS040607	1.00	1338				X					X				X												
BS040607	1.00	1344				X					X				X												
LCSSD055	2.00	1349				X					X				X												
SSD055-D	2.00	1354				X					X				X												
819486D_	2.00	1400				X					X				X												
819486__	2.00	1405									X																
819486L_	2.00	1411				X					X				X												
819486MS	2.00	1416				X					X				X												
ZZZZZZ__	2.00	1422																									
819479__	2.00	1427									X																
CCV______	1.00	1432				X					X				X												
CCB______	1.00	1438				X					X				X												
819480__	2.00	1443									X																
819481__	2.00	1449									X																
819484__	2.00	1454									X																
819485__	2.00	1500									X																
819487__	2.00	1505									X																
ICSA_____	1.00	1511				X					X				X												
ICSAB___	1.00	1517				X					X				X												
CCV______	1.00	1522				X					X				X												
CCB______	1.00	1527				X					X				X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON________________ Contract: __________

Lab Code: 12028_ Case No.: ______ SAS No.: ______ SDG No.:22386_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 04/06/07 End Date: 04/06/07

Lab Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	1624		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL1__	1.00	1629		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL2__	1.00	1635		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
T1CAL3__	1.00	1640		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X	X
ZZZZZZ__	1.00	1645																									
ICV/CCV_	1.00	1651				X									X												
ICB/CCB_	1.00	1656				X									X												
ICSA____	1.00	1702				X									X												
ICSAB___	1.00	1707				X									X												
ZZZZZZ__	1.00	1716																									
ZZZZZZ__	1.00	1721																									
ZZZZZZ__	1.00	1727																									
817659__	2.00	1732				X									X												
817660__	2.00	1737													X												
817661__	2.00	1743													X												
817662__	2.00	1748				X									X												
817663__	2.00	1754				X									X												
CCV______	1.00	1759				X									X												
CCB______	1.00	1805				X									X												
817664__	2.00	1810				X									X												
817665__	2.00	1816				X									X												
817666__	2.00	1821				X									X												
817667__	2.00	1827				X									X												
817668__	2.00	1832				X									X												
819060__	2.00	1837				X									X												
819061__	2.00	1843				X									X												
817393__	1.00	1848													X												
ICSA____	1.00	1854				X									X												
ICSAB___	1.00	1859				X									X												
CCV______	1.00	1905				X									X												
CCB______	1.00	1910				X									X												

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22386_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 04/09/07 End Date: 04/09/07

Lab Sample No.	D/F	Time	% R	Analytes																								
				ALL	BS	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
1CAL-BLK	1.00	1020		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL1	1.00	1026		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2	1.00	1031		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3	1.00	1037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
ZZZZZZ	1.00	1042																										
ICV/CCV	1.00	1048				X																						
ICB/CCB	1.00	1054				X																						
ICSA	1.00	1059				X																						
ICSAB	1.00	1105				X																						
ZZZZZZ	1.00	1110																										
ZZZZZZ	1.00	1116																										
ZZZZZZ	1.00	1121																										
817660	2.00	1127				X																						
817661	2.00	1138				X																						
ZZZZZZ	1.00	1144																										
ZZZZZZ	1.00	1150																										
ZZZZZZ	2.00	1155																										
CCV	1.00	1201				X																						
CCB	1.00	1206				X																						
ZZZZZZ	2.00	1212																										
ZZZZZZ	2.00	1217																										
ZZZZZZ	3.00	1228																										
ZZZZZZ	3.00	1233																										
ZZZZZZ	3.00	1239																										
ZZZZZZ	3.00	1250																										
ZZZZZZ	3.00	1256																										
ZZZZZZ	2.00	1301																										
ZZZZZZ	2.00	1307																										
ZZZZZZ	2.00	1312																										
CCV	1.00	1318				X																						
CCB	1.00	1323				X																						
ZZZZZZ	2.00	1329																										

ANALYSIS RUN LOG

Lab Name: STL_EDISON Contract:

Lab Code: 12028_ Case No.: SAS No.: SDG No.:22386_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 04/09/07 End Date: 04/09/07

Lab Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ZZZZZZ	2.00	1335																									
ZZZZZZ	2.00	1340																									
ZZZZZZ	2.00	1346																									
ZZZZZZ	2.00	1351																									
ZZZZZZ	2.00	1357																									
ZZZZZZ	2.00	1402																									
ZZZZZZ	2.00	1408																									
ZZZZZZ	2.00	1413																									
ZZZZZZ	2.00	1419																									
CCV	1.00	1424				X																					
CCB	1.00	1430				X																					
ZZZZZZ	2.00	1436																									
ZZZZZZ	2.00	1441																									
ZZZZZZ	2.00	1447																									
ICSA	1.00	1452				X																					
ICSAB	1.00	1458				X																					
CCV	1.00	1503				X																					
CCB	1.00	1509				X																					

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